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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/769,741	01/30/2004	Ryan C. Lakin	5490-000250/CPB	6558	
	7590 05/18/200 CKEY & PIERCE, P.L		EXAMINER		
P.O. BOX 828			STOKES, CANDICE CAPRI		
BLOOMFIELL	O HILLS, MI 48303		ART UNIT PAPER NUMBER		
			3732		
			MAIL DATE	DELIVERY MODE	
		•	05/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/769,741	LAKIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Candice C. Stokes	3732	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	• .
Status			
1) Responsive to communication(s) filed on <u>02</u>	? January 2007.		
2a) This action is <b>FINAL</b> . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow			
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1,2 and 4-37 is/are pending in the	application.		٠
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5)⊠ Claim(s) <u>33</u> is/are allowed.			
6) Claim(s) <u>1,2,4-32 and 34-37</u> is/are rejected.	•		
7) Claim(s) is/are objected to.	d/av alastian requirement	·	
8) Claim(s) are subject to restriction and	a/or election requirement.		
Application Papers	4		
9)☐ The specification is objected to by the Exam	iner.		
10)☐ The drawing(s) filed on is/are: a)☐ a			
Applicant may not request that any objection to t	<del>-</del> : :		
Replacement drawing sheet(s) including the corr			
Priority under 35 U.S.C. § 119	•		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
<ol><li>Certified copies of the priority docume</li></ol>			
3. Copies of the certified copies of the p	·	received in this National Stage	
application from the International Bure		l and a six and	
* See the attached detailed Office action for a l	ist of the certified copies no	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date Informal Patent Application	
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	6) Other:		

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4--32, and 34-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gray, III (USPN 5,800,555) in view of Sullivan et al (US 2003/0125810). As to claim 22, Gray discloses a kit of prosthetic components 10 comprising: an acetabular prosthetic 12 defining an integral spherical bearing surface 38 and a locking mechanism 16 configured to accept a second prosthetic device 14; at least one second prosthetic device 14 having a partially spherical bearing surface 72, the partially spherical bearing surface 72 is configured substantially surround a head 78 of a femoral component 80; and a femoral prosthetic 80. Regarding claim 23, said second prosthetic device 14 is selected from a group consisting of a constraining ring, a bearing insert, a bearing having an integral constraining ring, and combinations thereof. As to claim 25, said second prosthetic device 14 is a constraining ring defining a constraining ring bearing surface 72 and a constraining ring locking mechanism 16 configured to fixably couple said constraining ring to said acetabular prosthetic 12. With regards to claims 26 and 29-31, the second prosthetic device 14 is a polymer bearing insert (see column 4, lines 15-16) which defines an interior bearing surface 72 and a bearing insert locking mechanism 16, wherein said bearing insert locking mechanism 16 is configured to lock said polymer bearing insert to said acetabular prosthetic 12. As to claim 27, Gray also discloses a method for implanting a medical device

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comprising: implanting a first prosthetic 12 having an integral internal bearing surface 38 and a locking mechanism 16 which is configured to fixably accept a second prosthetic 14 having a second bearing surface 72 which substantially surrounds a head portion 78 of a femoral component 80, to a prepared joint; and inserting a femoral prosthetic 80 within the integral internal bearing surface 38 of the first prosthetic 12. As to claim 28, the method further comprising coupling a device second prosthetic device 14 to the locking mechanism 16 after the first prosthetic device 12 has been implanted in the prepared joint. Regarding claim 32, the method further comprising: removing the femoral prosthesis 80 from said first prosthetic 12, coupling said second prosthetic 14 to said first prosthetic 12, and inserting the femoral prosthesis 80 into said first and second prosthetics 12,14. As to claims 34-36, Gray also discloses, an acetabular prosthetic implant comprising: a first member having a bone engagement surface and an integral generally spherical first bearing surface, said first member defining a locking mechanism configured to be coupled to a second prosthetic member; and a second prosthetic member, coupled to said locking mechanism, said second member defining a second semispherical bearing surface (see column 3, line 35), said first and second bearing surfaces defining a generally capsule shaped cavity, and wherein said generally capsule shaped cavity is configured to rotatably accept a head of a femoral prosthetic and allow the translation of the head along a predetermined axis. Gray, III et al substantially discloses the claimed invention as amended except, they do not claim the concave bearing surface being polished. Sullivan et al teach "the bearing surface of the prosthesis which should have minimum friction and maximum resistance to wear can be formed of a very hard material such as a high density ceramic or a CoCrMo alloy or other hard bio compatible material, polished to a smooth bearing surface. It

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would have been obvious to one having ordinary skill in the art to incorporate a polished bearing surface such as that taught by Sullivan et al into the prosthetic disclosed by Gray, III et al in order to minimize the friction and maximize the wear resistance of the bearing surface. Further to the amended version of claims 1,22,27, and 34 the term "configured to directly engaged..." is also met by this rejection because the bearing surface as disclosed is capable of directly engaging an articulating surface.

Regarding claim 24 Gray discloses the claimed invention except for the kit comprising a plurality of femoral prosthetic components. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include more than one femoral component within the kit, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. *St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.

As to claim 37, Gray discloses the claimed invention except for the generally cylindrical bearing surface having a length of about 1 to about 4mm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the bearing surface any desired length suitable for its intended use, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Regarding claim 18, Gray discloses the claimed invention except for the reinforcement structure having a C-shaped cross-section. It would have been obvious to make the reinforcement structure having a c-shaped cross-section, since such a modification would have involved a mere change in the shape of an element.

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## Allowable Subject Matter

Claim 33 is allowed.

# Response to Arguments

In response to the request for pre-appeal conference filed 01/02/07, the rejection has been modified to clarify the position of the Office. The arguments submitted with respect to the Cook et al reference were persuasive and those rejections have been withdrawn.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Candice C. Stokes whose telephone number is (571) 272-4714. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on (571) 272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Candice C. Stokes

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